

**Patent claims**

1. A plant for producing a nonwoven web of fibres out of fibrous material and which comprises a defibrator, such as a hammer mill, for defibrating the fibre material and at least one forming head for forming a fibre web on a endless forming wire which, during operation, runs mainly horizontally, a first transport fan for transporting defibrated fibre to the forming head via a first air duct, and a second transport fan to extract nits from the forming head via a second air duct, **characterised** in that the plant also includes a separator, connected to another air duct, for separating nits from well-dissected fibres.
2. A plant according to claim 1, **characterised** in that it includes a third transport fan for returning the separated, well-defibrated fibres to the forming head via a third air duct.
3. A plant according to claim 1 or 2, **characterised** in that it includes a fourth transport fan to remove the separated nits from the nits separator via a fourth air duct.
4. A plant according to claim 1, 2 or 3, **characterised** in that it includes a nits defibrator to convert the separated nits into well-defibrated fibres.
5. A plant according to any one of the claims 1 - 4, **characterised** in that the fourth air duct runs between the nits separator and the nits defibrator and that it is also connected to the forming head via a fifth air duct with a fifth transport fan for returning the defibrated nits to the forming head.
6. A plant according to any one of the claims 1 - 5, **characterised** in that the nits separator is a forming head.

7. A plant according to any one of the claims 1 - 5,  
**characterised** in that the nits separator is a cyclone.
- 5 8. A plant according to any one of the claims 1 - 5,  
**characterised** in that the nits defibrator is a hammer mill.
9. A plant according to any one of the claims 1 - 5,  
**characterised** in that the nits defibrator is a refiner,  
10 designed to defibrate the nits between two grinding discs.
10. A plant according to any one of the claims 1 - 5,  
**characterised** in that the nits defibrator is constructed in  
the form of a card.